

APPENDIX R

Wildlife

R.1 Wildlife Mitigation Noise Levels

The following wildlife mitigation measures will be considered for production facilities and heavy equipment.

1. For all areas in the Monument, no more than 49 decibels (dB) at 300 feet from all production equipment (BLM 2003c).
2. Restrict noise levels from production facilities to 49 dB (10 dB above background noise at the lek). (Management Plan and Conservation Strategies for Sage Grouse in Montana – Final 2005)
3. Restrict use of heavy equipment that exceeds 49 dB within 2 miles of a lek from 4 a.m. – 8 a.m. and 7 p.m. – 10 p.m. during March 1 – June 15 (Management Plan and Conservation Strategies for Sage Grouse in Montana – Final 2005).
4. Noise restriction during drilling/construction would only be limited as per guidelines for sage grouse in the Management Plan and Conservation Strategies for Sage Grouse in Montana – Final 2005.

For comparison, Table R.1.1 provides the noise level and human response for various sources.

Table R.1.1 Noise Levels and Human Response		
<i>Common Sounds</i>	<i>Noise Levels (dB)</i>	<i>Effect</i>
Jet engine (near)	140	
Shotgun firing Jet takeoff (100-200 ft.)	130	Threshold of pain
Thunderclap (near Discotheque)	120	Threshold of sensation
Power saw Pneumatic drill Rock music band	110	Regular exposure of more than 1 min. risks permanent hearing loss
Garbage truck	100	No more than 15 min. unprotected exposure recommended
Subway Motorcycle Lawnmower	90	Very annoying
Electric razor Many industrial workplaces	85	Level at which hearing damage begins (8 hours)
Average city traffic noise Garbage disposal	80	Annoying. Interferes with conversation
Vacuum cleaner Hair dryer Inside a car	70	Intrusive. Interferes with telephone conversation
Normal conversation	60	
Quiet office Air conditioner	50	Comfortable
Whisper	30	Very quiet
Normal breathing	10	Just audible
	0	Threshold of normal hearing (1000-4000 Hertz)

Source: The Canadian Hearing Society, <http://www.chs.ca/info/noise/levels.html>.

R.2 Fish, Wildlife, Herptofauna, and Avian Species Found within the Monument

Fish

<i>Common Name</i>	<i>Scientific Name</i>	<i>Native or Introduced</i>	<i>Occurrence</i>	<i>Species Status</i>
Bigmouth Buffalo	<i>Ictiobus cyprinellus</i>	Native	Seasonally Common	
Black Bullhead	<i>Ictalurus melas</i>	Introduced	Rare	
Black Crappie	<i>Pomoxis nigromaculatus</i>	Introduced	Uncommon	
Blue Sucker	<i>Cycleptus elongatus</i>	Native	Common	Sensitive
Brassy Minnow	<i>Hybognathus hankinsoni</i>	Native	Uncommon	
Brook Trout	<i>Salvelinus fontinalis</i>	Introduced	Incidental	
Brook Stickleback	<i>Culaea inconstans</i>	Native	Uncommon	
Brown Trout	<i>Salmo trutta</i>	Introduced	Uncommon	
Burbot	<i>Lota lota</i>	Native	Uncommon	
Carp	<i>Cyprinus carpio</i>	Introduced	Abundant	
Channel Catfish	<i>Ictalurus punctatus</i>	Native	Common	
Chinook Salmon	<i>Oncorhynchus tshawytscha</i>	Introduced	Rare	
Cisco	<i>Coregonus artedi</i>	Introduced	Uncommon	
Emerald Shiner	<i>Notropis atherinoides</i>	Native	Abundant	
Fathead Minnow	<i>Pimephales promelas</i>	Native	Common	
Flathead Chub	<i>Hybopsis gracilis</i>	Native	Abundant	
Freshwater Drum	<i>Aplodinotus grunniens</i>	Native	Uncommon	
Goldeye	<i>Hiodon alosoides</i>	Native	Abundant	
Goldfish	<i>Carassius auratus</i>	Introduced	Rare	
Iowa Darter	<i>Etheostoma exile</i>	Native	Uncommon	
Lake Chub	<i>Couesius plumbeus</i>	Native	Common	
Longnose Dace	<i>Rhinichthys cataractae</i>	Native	Common	
Longnose Sucker	<i>Catostomus catostomus</i>	Native	Common	
Mottled Sculpin	<i>Cottus bairdi</i>	Native	Uncommon	
Mountain Sucker	<i>Catostomus platyrhynchus</i>	Native	Uncommon	
Mountain Whitefish	<i>Prosopium williamsoni</i>	Native	Uncommon	
Northern Pike	<i>Esox lucius</i>	Introduced	Common	
Northern Redbelly X Finescale Dace	<i>Phoxinus eos x phoxinus neogaeus</i>	Native	Rare	Sensitive
Paddlefish	<i>Polyodon spathula</i>	Native	Seasonally common	Sensitive
Pallid Sturgeon	<i>Scaphirhynchus albus</i>	Native	Rare	Endangered
Pearl Dace	<i>Semotilus/Margariscus margarita</i>	Native	Rare	Sensitive
Plains Minnow	<i>Hybognathus placitus</i>	Native	Uncommon	
Pumpkinseed	<i>Lepomis gibbosus</i>	Native	Rare	
Rainbow Trout	<i>Salmo gairdneri</i>	Introduced	Uncommon	
River Carpsucker	<i>Carpiodes carpio</i>	Native	Abundant	
Sand Shiner	<i>Notropis stramineus</i>	Native	Rare	
Sauger	<i>Stizostedion canadense</i>	Native	Common	Sensitive
Shorthead Redhorse	<i>Moxostoma macrolepidotum</i>	Native	Abundant	
Shovelnose Sturgeon	<i>Scaphirhynchus platyrhynchus</i>	Native	Common	
Sicklefin Chub	<i>Macrhybopsis meeki</i>	Native	Common	Sensitive

<i>Common Name</i>	<i>Scientific Name</i>	<i>Native or Introduced</i>	<i>Occurrence</i>	<i>Species Status</i>
Smallmouth Bass	<i>Micropterus dolomieu</i>	Introduced	Uncommon	
Smallmouth Buffalo	<i>Ictiobus bubalus</i>	Native	Common	
Spottail Shiner	<i>Notropis hudsonius</i>	Introduced	Uncommon	
Stonecat	<i>Noturus flavus</i>	Native	Common	
Sturgeon Chub	<i>Hybopsis gelida</i>	Native	Common	Sensitive
Walleye	<i>Stizostedion vitreum</i>	Introduced	Common	
Western Silvery Minnow	<i>Hybognathus nuchalis</i>	Native	Abundant	
White Crappie	<i>Pomoxis annularis</i>	Introduced	Uncommon	
White Sucker	<i>Catostomus commersoni</i>	Native	Common	
Yellow Perch	<i>Perca flavescens</i>	Introduced	Uncommon	

Mammals

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Badger	<i>Taxidea taxus</i>	
Beaver	<i>Castor canadensis</i>	
Big Brown Bat	<i>Eptesicus fuscus</i>	
Bighorn Sheep	<i>Ovis canadensis</i>	
Black-tailed Prairie Dog	<i>Cynomys ludovicianus</i>	Sensitive
Bobcat	<i>Lynx rufus</i>	
Bushy Tail Woodrat	<i>Neotoma cinerea</i>	
Coyote	<i>Canis latrans</i>	
Deer Mouse	<i>Peromyscus maniculatus</i>	
Desert Cottontail	<i>Sylvilagus audubonii</i>	
Dwarf Shrew	<i>Sorex nanus</i>	
Hayden's Shrew	<i>Sorex haydeni</i>	
Hoary Bat	<i>Lasiurus cinereus</i>	
House Mouse	<i>Mus musculus</i>	
Least Chipmunk	<i>Tamias minimus</i>	
Least Weasel	<i>Mustela nivalis</i>	
Little Brown Myotis (Bat)	<i>Myotis lucifugus</i>	
Long-eared Myotis (Bat)	<i>Myotis evotis</i>	Sensitive
Long-legged Myotis (Bat)	<i>Myotis volans</i>	Sensitive
Long-tailed Vole	<i>Microtus longicaudus</i>	
Long-tailed Weasel	<i>Mustela frenata</i>	
Masked Shrew	<i>Sorex cinereus</i>	
Meadow Vole	<i>Microtus pennsylvanicus</i>	
Merriam's Shrew	<i>Sorex merriami</i>	
Mink	<i>Mustela vison</i>	
Montane Shrew	<i>Sorex monticolus</i>	
Mountain Cottontail	<i>Sylvilagus nuttallii</i>	
Mountain Lion	<i>Puma concolor</i>	
Mule Deer	<i>Odocoileus hemionus</i>	
Muskrat	<i>Ondatra zibethicus</i>	
Northern Grasshopper Mouse	<i>Onychomys leucogaster</i>	

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Northern Pocket Gopher	<i>Thomomys talpoides</i>	
Northern Water Shrew	<i>Sorex palustris</i>	
Olive-backed Pocket Mouse	<i>Perognathus fasciatus</i>	
Ord's Kangaroo Rat	<i>Dipodomys ordii</i>	
Porcupine	<i>Erethizon dorsatum</i>	
Prairie Vole	<i>Microtus ochrogaster</i>	
Preble's Shrew	<i>Sorex preblei</i>	
Pronghorn	<i>Antilocapra americana</i>	
Raccoon	<i>Procyon lotor</i>	
Red Bat	<i>Lasiurus borealis</i>	
Red Fox	<i>Vulpes vulpes</i>	
Red Squirrel	<i>Tamiasciurus hudsonicus</i>	
Richardson's Ground Squirrel	<i>Spermophilus richardsonii</i>	
River Otter	<i>Lontra canadensis</i>	
Rocky Mountain Elk	<i>Cervus elaphus</i>	
Sagebrush Vole	<i>Lemmiscus curatus</i>	
Short-tailed Weasel	<i>Mustela erminea</i>	
Silver-haired Bat	<i>Lasionycteris noctivagans</i>	
Striped Skunk	<i>Mephitis mephitis</i>	
Thirteen-lined Ground Squirrel	<i>Spermophilus tridecemlineatus</i>	
Townsend's Big-eared Bat	<i>Corynorhinus townsendii</i>	Sensitive
Western Harvest Mouse	<i>Reithrodontomys megalotis</i>	
Western Jumping Mouse	<i>Zapus princeps</i>	
Western Small-footed Myotis (Bat)	<i>Myotis ciliolabrum</i>	
White-footed Mouse	<i>Peromyscus leucopus</i>	
White-tailed Jackrabbit	<i>Lepus townsendii</i>	
White-tailed Deer	<i>Odocoileus virginianus</i>	
Yellow-bellied Marmot	<i>Marmota flaviventris</i>	
Yellow-pine Chipmunk	<i>Tamias amoenus</i>	
Yuma Myotis (Bat)	<i>Myotis yumanensis</i>	

Herptofauna

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Bull Snake	<i>Pituopis melanoleucus sayi</i>	
Garter Snake	<i>Thamnophis spp.</i>	
Great Plains Toad	<i>Bufo cognatus</i>	Sensitive
Greater short-horned Lizard	<i>Phrynosoma hernandesi hernandesi</i>	Sensitive
Milk Snake	<i>Lampropeltis triangulum</i>	
Northern Leopard Frog	<i>Rana pipiens</i>	Sensitive
Plains Spadefoot Toad	<i>Spea bombifrons</i>	Sensitive
Eastern Yellowbelly Racer	<i>Coluber constrictor flaviventris</i>	
Sagebrush Lizard	<i>Sceloporus graciosus (Phrynosomatidae)</i>	
Snapping Turtle	<i>Chelydra spp.</i>	Sensitive
Spiny Softshell Turtle	<i>Trionyx spiniferus</i>	Sensitive

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Tiger Salamander	<i>Ambystoma tigrinum</i>	
Western Chorus Frog	<i>Pseudacris triseriata</i>	
Western Hog-nosed Snake	<i>Heterodon nasicus</i>	Sensitive
Western Rattlesnake	<i>Crotalus viridis</i>	
Woodhouse's Toad	<i>Bufo woodhousii</i>	

Avian

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
American Avocet	<i>Recurvirostra americana</i>	
American Bittern	<i>Botaurus lentiginosus</i>	
American Coot	<i>Fulica americana</i>	
American Crow	<i>Corvus brachyrhynchos</i>	
American Goldfinch	<i>Carduelis tristis</i>	
American Kestrel	<i>Falco sparverius</i>	
American Pipit	<i>Anthus rubescens</i>	
American Redstart	<i>Setophaga ruticilla</i>	
American Robin	<i>Turdus migratorius</i>	
American Tree Sparrow	<i>Spizella arborea</i>	
American White Pelican	<i>Pelecanus erythrorhynchos</i>	
American Wigeon	<i>Anas americana</i>	
Baird's Sandpiper	<i>Calidris bairdii</i>	
Bairds Sparrow	<i>Ammodramus bairdii</i>	Sensitive
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Sensitive
Baltimore Oriole	<i>Icterus galbula</i>	
Bank Swallow	<i>Riparia riparia</i>	
Barn Swallow	<i>Hirundo rustica</i>	
Belted Kingfisher	<i>Ceryle alcyon</i>	
Black and White Warbler	<i>Mniotilta varia</i>	
Black Tern	<i>Chlidonias niger</i>	Sensitive
Black-billed Cuckoo	<i>Coccyzus erythrophthalmus</i>	
Black-billed Magpie	<i>Pica hudsonia</i>	
Black-capped Chickadee	<i>Poecile atricapilla</i>	
Black-crowned Night Heron	<i>Nycticorax nycticorax</i>	
Black-headed Grosbeak	<i>Pheucticus melanocephalus</i>	
Black-necked Stilt	<i>Himantopus mexicanus</i>	
Blackpoll Warbler	<i>Dendroica striata</i>	
Blue-winged Teal	<i>Anas discors</i>	
Bobolink	<i>Dolichonyx oryzivorus</i>	
Bohemian Waxwing	<i>Bombycilla garrulus</i>	
Bonaparte's Gull	<i>Larus philadelphia</i>	
Brewer's Blackbird	<i>Euphagus cyanocephalus</i>	
Brewer's Sparrow	<i>Spizella breweri</i>	Sensitive
Brown Creeper	<i>Certhia americana</i>	
Brown Thrasher	<i>Toxostoma rufum</i>	

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Brown-headed Cowbird	<i>Molothrus ater</i>	
Bufflehead	<i>Bucephala albeola</i>	
Bullock's Oriole	<i>Icterus bullockii</i>	
Burrowing Owl	<i>Athene cunicularia</i>	Sensitive
California Gull	<i>Larus californicus</i>	
Canada Goose	<i>Branta canadensis</i>	
Canvasback Duck	<i>Aythya valisineria</i>	
Cassin's Finch	<i>Carpodacus cassinii</i>	
Cedar Waxwing	<i>Bombycilla cedrorum</i>	
Chestnut-collared Longspur	<i>Calcarius ornatus</i>	Sensitive
Chipping Sparrow	<i>Spizella passerina</i>	
Cinnamon Teal	<i>Anas cyanoptera</i>	
Clark's Nutcracker	<i>Nucifraga columbiana</i>	
Clay-colored Sparrow	<i>Spizella pallida</i>	
Cliff Swallow	<i>Petrochelidon pyrrhonota</i>	
Common Goldeneye	<i>Bucephala clangula</i>	
Common Grackle	<i>Quiscalus quiscula</i>	
Common Merganser	<i>Mergus merganser</i>	
Common Nighthawk	<i>Chordeiles minor</i>	
Common Poorwill	<i>Phalaenoptilus nuttallii</i>	
Common Raven	<i>Corvus corax</i>	
Common Redpoll	<i>Carduelis flammea</i>	
Common Snipe	<i>Gallinago gallinago</i>	
Common Tern	<i>Sterna hirundo</i>	
Common Yellowthroat	<i>Geothlypis trichas</i>	
Cooper's Hawk	<i>Accipiter cooperii</i>	
Dark-eyed Junco	<i>Junco hyemalis</i>	
Double-crested Cormorants	<i>Phalacrocorax auritus</i>	
Downy Woodpecker	<i>Picoides pubescens</i>	
Dusky Flycatcher	<i>Empidonax oberholseri</i>	
Eared Grebe	<i>Podiceps nigricollis</i>	
Eastern Kingbird	<i>Tyrannus tyrannus</i>	
European Starling	<i>Sturnus vulgaris</i>	
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	
Ferruginous Hawk	<i>Buteo regalis</i>	Sensitive
Forster's Tern	<i>Sterna forsteri</i>	
Fox Sparrow	<i>Passerella iliaca</i>	
Franklin's Gull	<i>Larus pipixcan</i>	Sensitive
Gadwall	<i>Anas strepera</i>	
Golden Crowned Kinglet	<i>Regulus satrapa</i>	
Golden Eagle	<i>Aquila chrysaetos</i>	Sensitive
Grasshopper Sparrow	<i>Ammodramus savannarum</i>	
Gray Catbird	<i>Dumetella carolinensis</i>	
Gray Partridge	<i>Perdix perdix</i>	
Gray-crowned Rosy-Finch	<i>Leucosticte tephrocotis</i>	

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Great Blue Heron	<i>Ardea herodias</i>	
Great Horned Owl	<i>Bubo virginianus</i>	
Greater Sage-Grouse	<i>Centrocercus urophasianus</i>	Sensitive
Greater Yellowlegs	<i>Tringa melanoleuca</i>	
Green-tailed Towhee	<i>Pipilo chlorurus</i>	
Green-winged Teal	<i>Anas crecca</i>	
Hairy Woodpecker	<i>Picoides villosus</i>	
Harris's Sparrow	<i>Zonotrichia querula</i>	
Hermit Thrush	<i>Catharus guttatus</i>	
Herring Gull	<i>Larus argentatus</i>	
Hooded Merganser	<i>Lophocytes cucullatus</i>	
Horned Grebe	<i>Podiceps auritus</i>	
Horned Lark	<i>Eremophila alpestris</i>	
House Finch	<i>Carpodacus mexicanus</i>	
House Sparrow	<i>Passer domesticus</i>	
House Wren	<i>Troglodytes aedon</i>	
Killdeer	<i>Charadrius vociferus</i>	
Lapland Longspur	<i>Calcarius lapponicus</i>	
Lark Bunting	<i>Calamospiza melanocorys</i>	
Lark Sparrow	<i>Chondestes grammacus</i>	
Lazuli Bunting	<i>Passerina amoena</i>	
Least Flycatcher	<i>Empidonax minimus</i>	
Least Sandpiper	<i>Calidris minutilla</i>	
Least Tern	<i>Sterna antillarum</i>	
Lesser Scaup	<i>Aythya affinis</i>	
Lesser Yellowlegs	<i>Tringa flavipes</i>	
Lewis's Woodpecker	<i>Melanerpes lewis</i>	
Lincoln's Sparrow	<i>Melospiza lincolnii</i>	
Loggerhead Shrike	<i>Lanius ludovicianus</i>	Sensitive
Long-billed Curlew	<i>Numenius americanus</i>	Sensitive
Long-billed Dowitcher	<i>Limnodromus scolopaceus</i>	
Long-eared Owl	<i>Asio otus</i>	
MacGillivray's Warbler	<i>Oporornis tolmiei</i>	
Mallard	<i>Anas platyrhynchos</i>	
Marbled Godwit	<i>Limosa fedoa</i>	Sensitive
Marsh Wren	<i>Cistothorus palustris</i>	
McCown's Longspur	<i>Calcarius mccownii</i>	Sensitive
Merlin	<i>Falco columbarius</i>	
Mountain Bluebird	<i>Sialia currucoides</i>	
Mountain Chickadee	<i>Poecile gambeli</i>	
Mountain Plover	<i>Charadrius montanus</i>	Sensitive
Mourning Dove	<i>Zenaida macroura</i>	
Northern Flicker	<i>Colaptes auratus</i>	
Northern Goshawk	<i>Accipiter gentilis</i>	Sensitive
Northern Harrier	<i>Circus cyaneus</i>	

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Northern Pintail	<i>Anas acuta</i>	
Northern Rough-winged Swallow	<i>Stelgidopteryx serripennis</i>	
Northern Shoveler	<i>Anas clypeata</i>	
Northern Shrike	<i>Lanius excubitor</i>	
Northern Waterthrush	<i>Seiurus noveboracensis</i>	
Olive-sided Flycatcher	<i>Contopus cooperi</i>	
Orange-crowned Warbler	<i>Vermivora celata</i>	
Osprey	<i>Pandion haliaetus</i>	
Ovenbird	<i>Seiurus aurocapillus</i>	
Pectoral Sandpiper	<i>Calidris melanotos</i>	
Peregrine Falcon	<i>Falco peregrinus</i>	Sensitive
Pied-billed Grebe	<i>Podilymbus podiceps</i>	
Pine Siskin	<i>Carduelis pinus</i>	
Piping Plover	<i>Charadrius melodus</i>	
Prairie Falcon	<i>Falco mexicanus</i>	
Red Crossbill	<i>Loxia curvirostra</i>	
Red-breasted Merganser	<i>Mergus serrator</i>	
Red-breasted Nuthatch	<i>Sitta canadensis</i>	
Red-eyed Vireo	<i>Vireo olivaceus</i>	
Redhead	<i>Aythya americana</i>	
Red-headed Woodpecker	<i>Melanerpes erythrocephalus</i>	Sensitive
Red-naped Sapsucker	<i>Sphyrapicus nuchalis</i>	
Red-tailed Hawk	<i>Buteo jamaicensis</i>	
Red-winged Blackbird	<i>Agelaius phoeniceus</i>	
Ring-billed Gull	<i>Larus delawarensis</i>	
Ring-necked Duck	<i>Aythya collaris</i>	
Ring-necked Pheasant	<i>Phasianus colchicus</i>	
Rock Dove	<i>Columba livia</i>	
Rock Wren	<i>Salpinctes obsoletus</i>	
Rose-breasted Grosbeak	<i>Pheucticus ludovicianus</i>	
Ross's Goose	<i>Chen rossii</i>	
Rough-legged Hawk	<i>Buteo lagopus</i>	
Ruby Crowned Kinglet	<i>Regulus calendula</i>	
Ruddy Duck	<i>Oxyura jamaicensis</i>	
Rusty Blackbird	<i>Euphagus carolinus</i>	
Sage Thrasher	<i>Oreoscoptes montanus</i>	Sensitive
Sandhill Crane	<i>Grus canadensis</i>	
Savannah Sparrow	<i>Passerculus sandwichensis</i>	
Say's Phoebe	<i>Sayornis saya</i>	
Semipalmated Plover	<i>Charadrius semipalmatus</i>	
Semipalmated Sandpiper	<i>Calidris pusilla</i>	
Sharp-shinned Hawk	<i>Accipiter striatus</i>	
Sharp-tailed Grouse	<i>Tympanuchus phasianellus</i>	
Short-eared Owl	<i>Asio flammeus</i>	
Snow Bunting	<i>Plectrophenax nivalis</i>	

<i>Common Name</i>	<i>Scientific Name</i>	<i>Species Status</i>
Snow Goose	<i>Chen caerulescens</i>	
Snowy Owl	<i>Nyctea scandiaca</i>	
Solitary Sandpiper	<i>Tringa solitaria</i>	
Song Sparrow	<i>Melospiza melodia</i>	
Sora	<i>Porzana carolina</i>	
Spotted Sandpiper	<i>Actitis macularia</i>	
Spotted Towhee	<i>Pipilo maculatus</i>	
Sprague's Pipit	<i>Anthus spragueii</i>	Sensitive
Swainson's Hawk	<i>Buteo swainsoni</i>	Sensitive
Swainson's Thrush	<i>Catharus ustulatus</i>	
Tennessee Warbler	<i>Vermivora peregrina</i>	
Townsend's Solitaire	<i>Myadestes townsendi</i>	
Tree Swallow	<i>Tachycineta bicolor</i>	
Tundra Swan	<i>Cygnus columbianus</i>	
Turkey Vulture	<i>Cathartes aura</i>	
Upland Sandpiper	<i>Bartramia longicauda</i>	
Veery	<i>Catharus fuscescens</i>	
Vesper Sparrow	<i>Pooecetes gramineus</i>	
Violet-green Swallow	<i>Tachycineta thalassina</i>	
Virginia Rail	<i>Rallus limicola</i>	
Warbling Vireo	<i>Vireo gilvus</i>	
Western Bluebird	<i>Sialia mexicana</i>	
Western Grebe	<i>Aechmophorus occidentalis</i>	
Western Kingbird	<i>Tyrannus verticalis</i>	
Western Meadowlark	<i>Sturnella neglecta</i>	
Western Tanager	<i>Piranga ludoviciana</i>	
Western Wood-Pewee	<i>Contopus sordidulus</i>	
White-breasted Nuthatch	<i>Sitta carolinensis</i>	
White-crowned Sparrow	<i>Zonotrichia leucophrys</i>	
White-faced Ibis	<i>Plegadis chihi</i>	Sensitive
White-fronted Goose	<i>Anser albifrons</i>	
White-throated Sparrow	<i>Zonotrichia albicollis</i>	
White-winged Crossbill	<i>Loxia leucoptera</i>	
Wild Turkey	<i>Meleagris gallopavo</i>	
Willet	<i>Catoptrophorus semipalmatus</i>	Sensitive
Willow Flycatcher	<i>Empidonax traillii</i>	
Wilson's Phalarope	<i>Phalaropus tricolor</i>	Sensitive
Wilson's Warbler	<i>Wilsonia pusilla</i>	
Wood Duck	<i>Aix sponsa</i>	
Yellow Warbler	<i>Dendroica petechia</i>	
Yellow-breasted Chat	<i>Icteria virens</i>	
Yellow-headed Blackbird	<i>Xanthocephalus xanthocephalus</i>	
Yellow-rumped Warbler	<i>Dendroica coronata</i>	

R.3 Determination of Potential Presence of Threatened, Endangered, or Candidate Species and BLM (Montana and Dakotas) Designated Sensitive Species

R.3.1 Federally Listed Threatened (T) and Endangered (E) Species (No Candidate Species Present)

<i>Species</i>	<i>Status</i>	<i>In Range (yes/no) *</i>	<i>Habitat Present (yes/no) **</i>	<i>Effects Determination</i>
Bald Eagle	T	Y	Y	Habitat present is primarily foraging during fall migration and winter. There are nine nest sites and numerous wintering and casual roost sites. The recreational activity along the Missouri River “May Affect” this species, but is “Not Likely to Adversely Affect.” The quantity and quality of this habitat will not be reduced appreciably. Should not impact individuals, their habitat, or their prey base. NOTE: The bald eagle was removed from the list of threatened and endangered wildlife on August 8, 2007.
Black-footed Ferret	E	Y	Y	Any prairie dog town over 80 acres is considered habitat, but small towns within the Monument will not support ferrets.
Pallid Sturgeon	E	Y	Y	Habitat is present in the Missouri River. The quantity and quality of this habitat will not be reduced and none of the proposed alternatives would affect this species.

* Range of species will indicate whether there is potential for a species to occur within the area, based on distribution determined by Montana Fish, Wildlife and Parks, Montana Natural Heritage Program, or other researchers. This does not guarantee presence.

** If suitable habitat is within the range of a species, that species is assumed to use the available habitat. This is not a guarantee of the presence of that species within the analysis area.

R.3.2 BLM (Montana and Dakotas) Designated Sensitive Species (Instruction Memorandum No. MT-2004-082)

<i>Species</i>	<i>In Range (yes/no) *</i>	<i>Habitat Present (yes/no) **</i>	<i>Effects Determination</i>
Fish			
Blue Sucker	Y	Y	Occurs in the Missouri River.
Northern Redbelly X Finescale Dace	Y	Y	Occurs in the tributaries of the Missouri River.
Paddlefish	Y	Y	Occurs in the Missouri River.

<i>Species</i>	<i>In Range (yes/no) *</i>	<i>Habitat Present (yes/no) **</i>	<i>Effects Determination</i>
Pearl Dace	Y	Y	Occurs in the tributaries of the Missouri River.
Sauger	Y	Y	Occurs in the Missouri River.
Sicklefin Chub	Y	?	Occurs in the tributaries of the Missouri River.
Sturgeon Chub	Y	?	Occurs in the tributaries of the Missouri River.
Mammals			
Black-tailed Prairie Dog	Y	Y	Occurs within the Monument. Benefits from livestock grazing.
Long-legged Myotis (Bat)	Y	Y	Known to occur within the Monument.
Long-eared Myotis (Bat)	Y	Y	Known to occur within the Monument.
Townsend's Big-eared Bat	Y	Y	Known to occur within the Monument.
Reptiles and Amphibians			
Great Plains Toad	Y	Y	Known to occur within the Monument.
Greater Short-horned Lizard	Y	Y	Known to occur within the Monument. Potential loss of individuals from traffic.
Northern Leopard Frog	Y	Y	Known to occur within the Monument.
Plains Spadefoot Toad	Y	Y	Known to occur within the Monument.
Snapping Turtle	Y	Y	Occurs in the Missouri River and its banks. Nesting can be affected by recreational and grazing use of muddy banks.
Spiny Softshell Turtle	Y	Y	Occurs in the Missouri River and its banks. Nesting can be affected by recreational and grazing use of muddy banks.
Western Hog-nosed Snake	Y	Y	Could occur in some parts of the Monument, but not documented.
Birds			
Bairds Sparrow	Y	Y	Small amount of potential grasslands habitat. Potential disturbance from traffic.
Bald Eagle	Y	Y	There are nine nest sites and numerous wintering and casual roost sites.
Black Tern	Y	Y	No nesting colonies have been identified within the Monument.
Brewer's Sparrow	Y	?	In the range of the species; could exist in the Monument, but not confirmed.
Burrowing Owl	Y	Y	Nesting and feeding areas on prairie dogs towns occur within the Monument.
Chestnut-collared Longspur	Y	Y	Potential disturbance from traffic.
Ferruginous Hawk	Y	Y	Occurs within the Monument, but no nests have been identified. Potential disturbance from traffic.
Franklin's Gull	Y	Y	Likely occurs on some wetlands within the Monument, although not documented.

<i>Species</i>	<i>In Range (yes/no) *</i>	<i>Habitat Present (yes/no) **</i>	<i>Effects Determination</i>
Golden Eagle	Y	Y	Occurs within the Monument, but no nests have been identified.
Greater Sage-Grouse	Y	Y	Nesting, breeding, and wintering occurs within the Monument, but no nests have been identified. Potential disturbance from traffic and oil and gas development.
Loggerhead Shrike	Y	Y	Occurs within the Monument, but no nests have been identified. Potential disturbance from traffic.
Long-billed Curlew	Y	Y	Occurs within the Monument, but no nests have been identified. Potential disturbance from traffic.
Marbled Godwit	Y	Y	Occurs within the Monument, but no nests have been identified.
McCown's Longspur	Y	Y	Likely occurs within the Monument. Potential disturbance from traffic.
Mountain Plover	Y	Y	Two prairie dog towns have been identified as nesting habitat within the Monument.
Northern Goshawk	Y	Y	Occurs within the Monument, but no nests have been identified. Potential disturbance from traffic or construction-related activity.
Peregrine Falcon	Y	Y	Individuals have been observed and hacking has occurred within the Monument, but no nests are currently documented.
Red-headed Woodpecker	Y	Y	Has potential to occur in cottonwood/green ash galleries along the Missouri River, but none have been recorded.
Sage Thrasher	Y ?	Y	At the edge of their range; could exist in the Monument, but not confirmed.
Sprague's Pipit	Y	Y	Occurs within the Monument. Potential disturbance from traffic.
Swainson's Hawk	Y	Y	Occurs within the Monument, but no nests have been identified. Potential disturbance from traffic.
White-faced Ibis	Y	Y	Is within the range and habitat occurs along the Missouri River, but none have been documented within the Monument.
Willet	Y	Y	Occurs within the Monument. Potential disturbance from traffic.
Wilson's Phalarope	Y	Y	Occurs within the Monument. Potential disturbance from traffic.

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** If suitable habitat is within the range of a species, that species is assumed to use the available habitat. This is not a guarantee of the presence of that species within the analysis area.